

Documentation for Approval to use the Discrete Analyzer

- 1) A copy of the application form documenting the methods and analytes that the laboratory will analyze on the discrete analyzer.
- 2) Standard Operating Procedure for each method that the laboratory will use with the discrete analyzer.
- 3) Method Detection Limit (MDL) Studies for each analyte. This procedure is described in 40 CFR Part 136 Appendix B. An example MDL summary form is attached for your convenience. Please also include the raw data (copies of the computer printouts for the MDL analysis sequence) in addition to sample preparation records and analysis logs.
- 4) Initial Demonstration of Capability (IDOC) Study. Where not dictated in the approved EPA Method, analyze four replicates of a standard. Calculate the average percent recovery and the standard deviation. An example IDOC summary form is enclosed for your convenience. Please also include the raw data (copies of the computer printouts for the MDL analysis sequence) in addition to sample preparation records and analysis logs.
- 5) Initial calibration data (including raw data and analysis run logs) used to quantitate the MDL and IDOC data.
- 6) Instrument operating conditions and run logs for each analysis sequence submitted.

Please note that if the method intended for use with the discrete analyzer is not already on the laboratory's list of certified parameters, the laboratory must request additional parameter certification. To do this, a complete application package must be submitted. If you need a complete application package or assistance in completing one, please contact the Office of Environmental Laboratory Certification at (803) 896-0970.